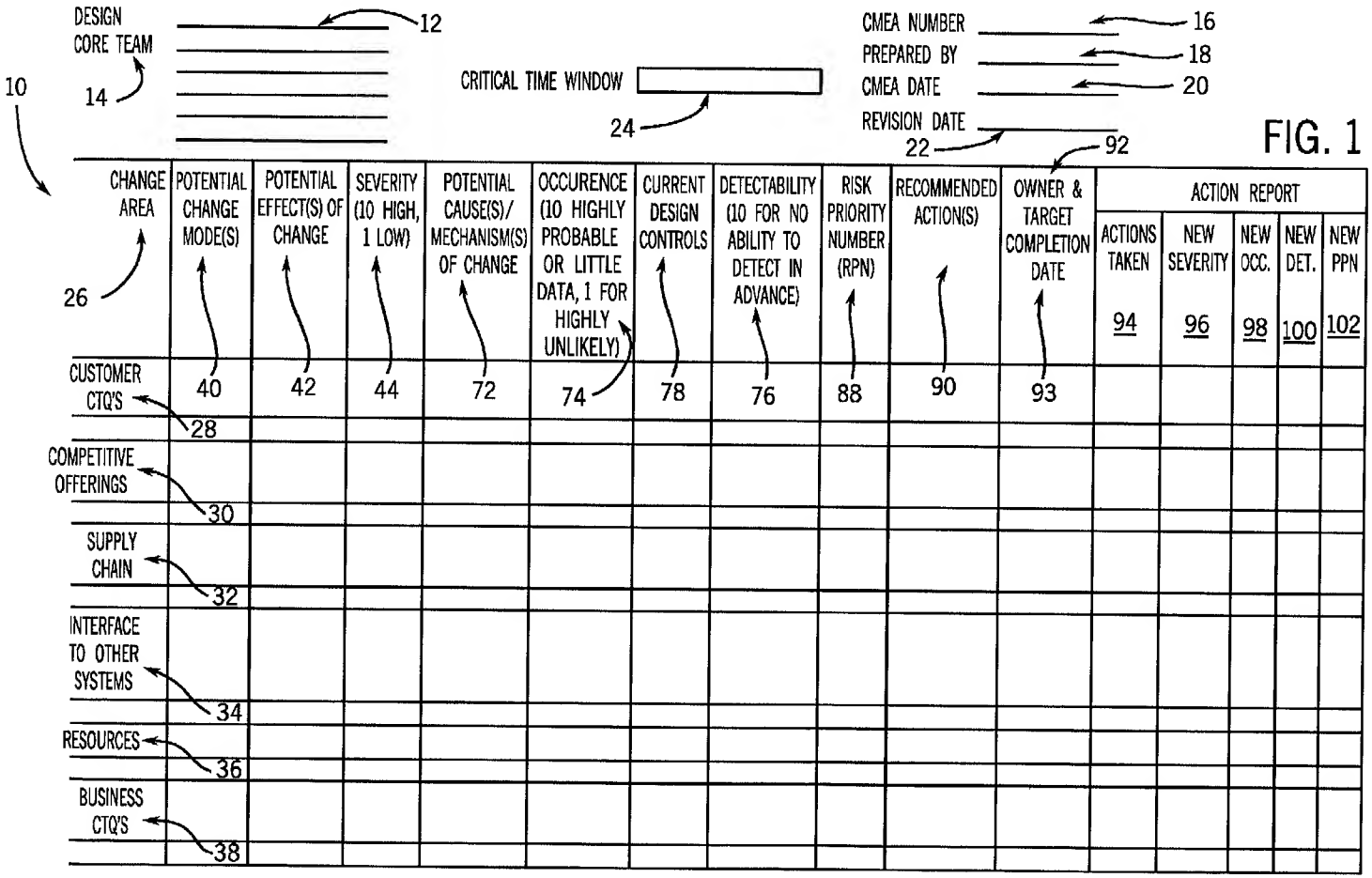
10
DESIGN CORE TEAM
14
12
CRITICAL TIME WINDOW
24
CMEA NUMBER
16
PREPARED BY
18
CMEA DATE
20
REVISION DATE
22
92
26
CHANGE AREA
POTENTIAL CHANGE MODE(S)
POTENTIAL EFFECT(S) OF CHANGE
SEVERITY (10 HIGH, 1 LOW)
POTENTIAL CAUSE(S)/ MECHANISM(S) OF CHANGE
OCCURENCE (10 HIGHLY PROBABLE OR LITTLE DATA, 1 FOR HIGHLY UNLIKELY)
CURRENT DESIGN CONTROLS
DETECTABILITY (10 FOR NO ABILITY TO DETECT IN ADVANCE)
RISK PRIORITY NUMBER (RPN)
RECOMMENDED ACTION(S)
OWNER & TARGET COMPLETION DATE
ACTION REPORT
ACTIONS TAKEN
NEW SEVERITY
NEW OCC.
NEW DET.
NEW PPN
94
96
98
100
102
CUSTOMER CTQ'S
28
COMPETITIVE OFFERINGS
30
SUPPLY CHAIN
32
INTERFACE TO OTHER SYSTEMS
34
RESOURCES
36
BUSINESS CTQ'S
38
40
42
44
72
74
78
76
88
90
93

FIG. 1

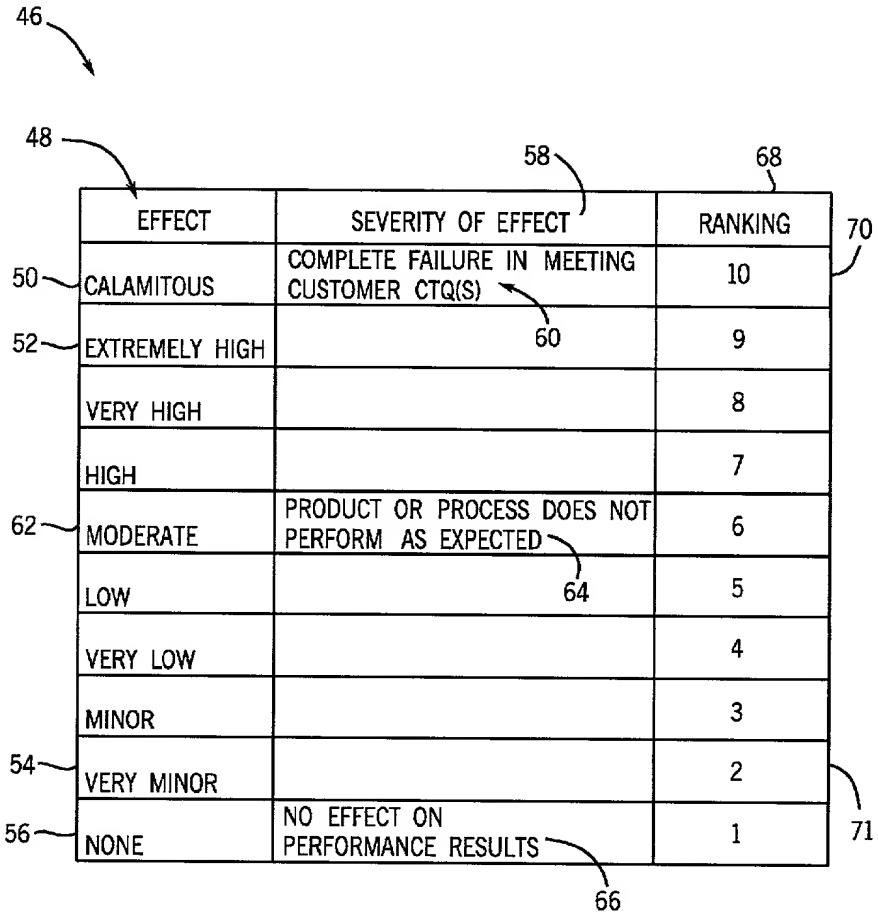
46
48
58
68
EFFECT
SEVERITY OF EFFECT
RANKING
70
50
CALAMITOUS
COMPLETE FAILURE IN MEETING CUSTOMER CTQ(S)
10
60
52
EXTREMELY HIGH
9
VERY HIGH
8
HIGH
7
62
MODERATE
PRODUCT OR PROCESS DOES NOT PERFORM AS EXPECTED
6
64
LOW
5
VERY LOW
4
MINOR
3
54
VERY MINOR
2
71
56
NONE
NO EFFECT ON PERFORMANCE RESULTS
1
66

FIG. 2

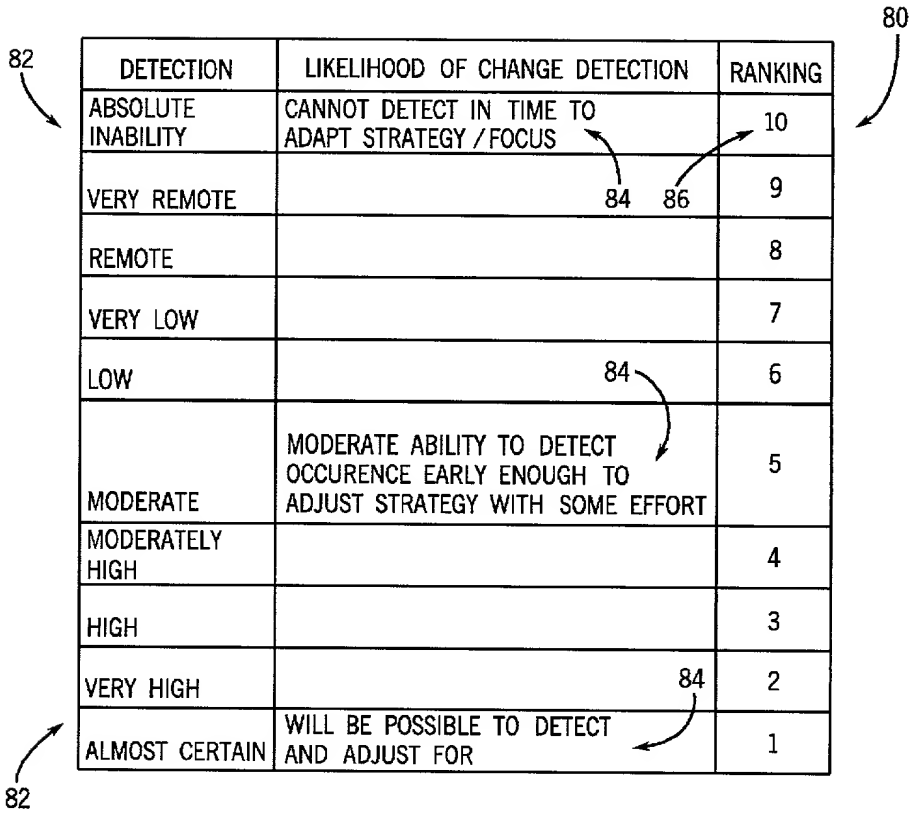
80
82
DETECTION
LIKELIHOOD OF CHANGE DETECTION
RANKING
ABSOLUTE INABILITY
CANNOT DETECT IN TIME TO ADAPT STRATEGY / FOCUS
10
84
86
VERY REMOTE
9
REMOTE
8
VERY LOW
7
LOW
6
84
MODERATE
MODERATE ABILITY TO DETECT OCCURENCE EARLY ENOUGH TO ADJUST STRATEGY WITH SOME EFFORT
5
MODERATELY HIGH
4
HIGH
3
VERY HIGH
84
2
ALMOST CERTAIN
WILL BE POSSIBLE TO DETECT AND ADJUST FOR
1
82

FIG. 3

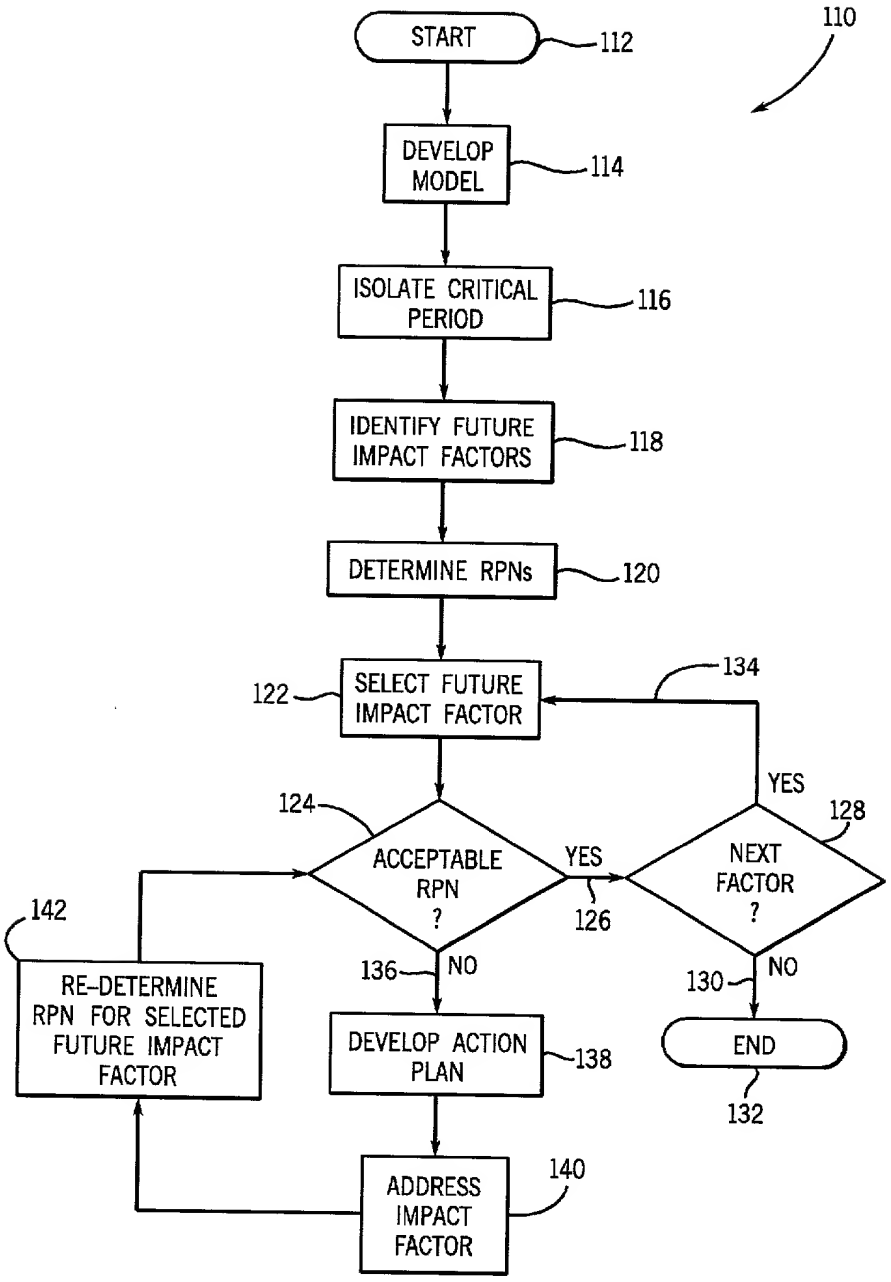
110
START
112
DEVELOP MODEL
114
ISOLATE CRITICAL PERIOD
116
IDENTIFY FUTURE IMPACT FACTORS
118
DETERMINE RPNs
120
122
SELECT FUTURE IMPACT FACTOR
134
124
ACCEPTABLE RPN ?
YES
126
NEXT FACTOR ?
128
YES
142
RE-DETERMINE RPN FOR SELECTED FUTURE IMPACT FACTOR
136
NO
DEVELOP ACTION PLAN
138
130
NO
END
132
ADDRESS IMPACT FACTOR
140

FIG. 4